

REPORT ON BOILERS.

No. 10941.

MON. 6 JUN. 1921

Received at London Office

Date of writing Report 27th May 1921 When handed in at Local Office 3rd June 1921 Port of Southampton

No. in Survey held at Plymouth Date, First Survey 17th Sept. 1920 Last Survey 24th May 1921

Reg. Book. on the S.S. "OLEANDER" (Number of Visits 21) Gross Tons } Net Tons }

Master Built at Pembroke By whom built H.M. Dockyard When built

Engines made at By whom made when made

Boilers made at Plymouth By whom made H.M. Dockyard when made 1921

Original Horse Power 644 Owners The Admiralty Port belonging to

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel The Park Gate Iron & Steel Co. Ltd
David Colville & Sons Ltd

Letter for record S Total Heating Surface of Boilers 2556 ^{ONE} Is forced draft fitted yes No. and Description of Boilers One Single Ended Working Pressure 180 lb. Tested by hydraulic pressure to 320 lb. Date of test 24-5-21

No. of Certificate 352 Can each boiler be worked separately — Area of fire grate in each boiler 63.3 No. and Description of Safety valves to each boiler — Area of each valve — Pressure to which they are adjusted —

Are they fitted with easing gear — In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler —

Smallest distance between boilers or uptakes and bunkers or woodwork — Mean dia. of boilers 15'-7 1/4" Length 11'-6"

Material of shell plates Steel Thickness 1 1/4" Range of tensile strength 28 to 32 Are the shell plates welded or flanged No

Description of riveting: cir. seams D.R. LAP. long. seams T.R. BUTT STRAPS Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 9 1/8"

No. of plates or width of butt straps 19 1/2" Per centages of strength of longitudinal joint rivets 88.2 Working pressure of shell by rules 181 lb. Size of manhole in shell 16" X 12" Size of compensating ring 7 flanged No. and Description of Furnaces in each boiler 3 Corrugated Material Steel Outside diameter 4'-2 3/16" Length of plain part — Thickness of plates crown 19" bottom 3/32"

Description of longitudinal joint Welded No. of strengthening rings — Working pressure of furnace by the rules 188.1 Combustion chamber material Steel Thickness: Sides 23/32" Back 1/16" Top 23/32" Bottom 23/32" Pitch of stays to ditto: Sides 9 1/4" X 10 5/8" Back 8 3/4" X 10 1/4"

Working pressure by rules 180 Material of stays Steel Diameter at smallest part 2.395" Area supported by each stay 98.28 Working pressure by rules 219 End plates in steam space: Material Steel Thickness 1 1/32"

How are stays secured DOUBLE NUTS Working pressure by rules 180.7 Material of stays Steel Diameter at smallest part 8.29"

Area supported by each stay 473.0625 Working pressure by rules 182.2 Material of Front plates at bottom Steel Thickness 3/32" Material of cover back plate Steel Thickness 27/32" Greatest pitch of stays 13 5/8" X 8 3/4" Working pressure of plate by rules 187.6 Diameter of tubes 2 3/4"

Material of tube plates Steel Thickness: Front 3/32" Back 3/4" Mean pitch of stays 9 3/4" Pitch across wide spaces 13 5/8" Working pressures by rules 181.1 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 10" X 1 3/4" Length as per rule 35 9/16" Distance apart 10 5/8" Number and pitch of Stays in each 3 - 9 1/4"

Working pressure by rules 187.6 Superheater or Steam chest: how connected to boiler — Can the superheater be shut off and the boiler worked separately — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —

End plates: Thickness — How stayed — Working pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —

The foregoing is a correct description,
A. W. Pender Manufacturer.

Is the approved plan of boiler forwarded herewith yes

Total No. of visits 21

During progress of work in shops: 17, 19, 22, 5, 9, 17, 25, 29, 11, 1920, 14, 20, 21, 17, 24

During erection on board vessel: 1, 10, 15, 24, 28, 18, 24, 3, 4, 5

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The Boiler has been built under Special Survey.

The materials and workmanship are sound and good.

The boiler is being sent to H.M. Dockyard, Pembroke.

Survey Fee ... £ 12 15 When applied for. 13/11/1922

Travelling Expenses (if any) £ 3 0 When received. 30/5/23 18/31/5

Committee's Minute

signed

FRI. NOV. 17 1922

TUE. DEC. 5 1922

TUE. JUN. 26 1923

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

A. H. Boyle

Lloyd's Register Foundation

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